

CLAIMS

Having thus described the aforementioned invention, we claim:

1. A disposable menstrual undergarment for absorption of body fluids excreted by a wearer, comprising:
 - a front interior portion attached to a rear interior portion along opposed side portions of an undergarment, said front and rear interior portions having an interior surface;
 - a crotch interior portion joining said front interior portion and said rear interior portion of said undergarment;
 - a waistband of generally continuous material;
 - two leg openings through said opposed side portions and adjacent said crotch portion, each of said two leg openings having an interior border;
 - an exterior layer of said undergarment, said exterior layer of breathable non-porous material;
 - a plurality of layers disposed on interior surfaces of said undergarment, including:
 - a middle layer of absorbent materials having a front layer, a crotch layer and a rear layer positioned on each of respective interior surfaces of said front portion, rear portion, and said crotch portion of said undergarment;
 - an interior faced layer of absorbent materials removably disposed on said middle layer, said interior faced layer extends from said interior surface of said

20 front portion, across said crotch portion, and to said rear portion; and
21 at least one strip of absorbent materials attachable along said interior border
22 of each of said two leg openings, said at least one strip of absorbent materials
23 being generally continuous along each interior border of each of said two leg
24 openings;
25 whereby said interior faced layer of absorbent materials is removable by the wearer
26 if soiled with said middle layer and said at least one strip of absorbent materials along
27 each interior border of said leg openings provide for additional absorption of body fluids
28 excreted by the wearer of the undergarment after removal of said interior faced layer.

1 2. The disposable menstrual undergarment of Claim 1 wherein said undergarment
2 including said exterior layer and said waistband being composed of cellulose-based
3 material, said cellulose-based material having a plurality of stretchable filaments therein,
4 said waistband is stretchable in a width dimension, said interior surface of said front
5 interior portion, said rear interior portion, and said crotch interior portion having a layer of
6 absorbent materials thereon.

1 3. The disposable menstrual undergarment of Claim 2 wherein said interior layer of
2 absorbent materials and said at least one strip of absorbent materials along each interior
3 border are composed of a cellulose-based material having at least one layer of generally
4 continuous absorbent materials along interior surfaces of said front portion, said rear

5 portion, said crotch portion, and each interior border of said undergarment.

1 4. The disposable menstrual undergarment of Claim 2 wherein said interior faced
2 layer of absorbent materials including:

3 a front layer removably disposed proximal on said front portion of
4 said middle layer on said front portion of said undergarment;

5 a rear layer removably disposed proximal on said rear portion of
6 said middle layer on said rear portion of said undergarment; and

7 a crotch layer connected between said front layer and said rear layer of said
8 middle layer on said crotch portion of said middle layer of said undergarment.

1 5. The disposable menstrual undergarment of Claim 4 including said front layer
2 having a front tab having one side of adherence material thereon, said front tab extends
3 from a leading edge of said front layer of said interior faced layer of absorbent materials,
4 and further including said rear layer having a rear tab having one side of adherence
5 material thereon, said rear tab extends from a trailing edge of said rear layer of said
6 interior faced layer of absorbent materials, said front tab is releasably attachable against
7 said front interior portion of said undergarment, said rear tab is releasably attachable
8 against said rear interior portion of said undergarment.

1 6. The disposable menstrual undergarment of Claim 1 wherein said middle layer of

2 absorbent materials is integrally attached to said interior surface of said front portion, rear
3 portion, and said crotch portion to provide a continuous interior layer of absorbent
4 materials composed of an absorbent polymer layer.

1 7. The disposable menstrual undergarment of Claim 3 wherein at least one strip of
2 absorbent materials along each interior border of each of said leg openings is composed of
3 a cellulose-based absorbent layer or an absorbent polymer layer.

1 8. A disposable menstrual undergarment for absorption of menstrual fluids excreted
2 by a wearer, comprising:

3 an undergarment having an exterior layer of breathable, non-porous and stretchable
4 material, said undergarment including an interior surface of said exterior layer, said
5 interior surface including a front portion attached to a rear portion, a crotch portion joining
6 said front portion to said rear portion, and two leg openings on opposed sides of said
7 crotch portion;

8 an interior circumferential border of absorbent materials positioned along interior
9 faced surfaces of each of said two leg openings; and

10 a middle layer of absorbent materials positioned on each of an interior surface of
11 said front portion, rear portion, and said crotch portion, said middle layer extended
12 laterally to overlap said interior circumferential border of absorbent materials positioned
13 along said interior faced surfaces of each of said two leg openings;

14 an interior faced layer of absorbent materials removably disposed on said middle
15 layer, said interior layer is positioned on said interior surface of said front portion of said
16 middle layer, across said crotch portion, and on said rear portion of said middle layer, said
17 interior faced layer is removably attached on said front portion and said rear portion of
18 said middle layer of absorbent materials;

19 whereby said interior faced layer of absorbent materials is removable by the wearer
20 from said middle layer when said interior faced layer is soiled, with said middle layer
21 remaining fixed against said interior circumferential border of absorbent materials
22 positioned along interior faced surfaces of each of said two leg openings provide for
23 absorption of menstrual fluids excreted by the wearer of the undergarment.

1 9. The disposable menstrual undergarment of Claim 8 wherein said interior faced
2 layer further includes a front edge having at least two extension tabs each having one side
3 of adherence material thereon, said at least two extension tabs extend from said front edge
4 of said interior faced layer of absorbent materials for adhesive contact with said interior
5 surface of said front portion of said undergarment, and further including said interior faced
6 layer having a rear edge having at least two extension tabs each having one side of
7 adherence material thereon, said at least two extension tabs extend from said rear edge of
8 said interior faced layer of absorbent materials for adhesive contact with said interior
9 surface of said rear portion of said undergarment.

1 10. The disposable menstrual undergarment of Claim 9 wherein said undergarment
2 including said exterior layer and said waistband being composed of cellulose-based
3 material, said cellulose-based material having a plurality of stretchable filaments therein,
4 said waistband is stretchable in a width dimension, said interior surface of said front
5 portion, said rear portion, and said crotch portion having a layer of absorbent materials
6 thereon.

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